

What is claimed is:

1 ~~1.~~ A method for providing a variable hop cycle
2 beam laydown, the method comprising:

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3         transmitting first downlink beam energy for first
4         cells according to a first hop cycle;

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transmitting second downlink beam energy for
second cells according to a second hop cycle different
than the first hop cycle; and

transmitting transition downlink beam energy for
transition cells according to a transition hop cycle
for transitioning between the first hop cycle and the
second hop cycle.

1 2. The method of claim 1, wherein transmitting
2 first downlink beam energy comprises transmitting
3 downlink beam energy for a first hop pair, wherein
4 transmitting second downlink beam energy comprises
5 transmitting downlink beam energy for a second hop
6 pair, and wherein transmitting transition downlink

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3 first cells supported by a first hop cycle;

4 second cells supported by a second hop cycle

5 different than the first hop cycle; and

6 transition cells supported by a transition hop

7 cycle for transitioning between the first hop cycle

8 and the second hop cycle.

1 8. The laydown of claim 7, wherein the first

2 cells comprise a first hop pair, the second cells

3 comprise a second hop pair, and the transition cells

4 comprise a third hop pair.

1 9. The laydown of claim 8, wherein the first

2 hop cycle is a 50-50 hop cycle.

1 10. The laydown of claim 9, wherein the second

2 hop cycle is a 75-25 hop cycle and wherein the

3 transition hop cycle is a 50-25 hop cycle.

1 11. The laydown of claim 10, wherein the 50-25

2 hop cycle comprises downlink beam energy in a first

3 transition cell 50 percent of a time period, downlink

1 23. The apparatus of claim 18, wherein the
2 transition hop cycle specifies transmission of
3 downlink beam energy in a first transition cell a
4 first percent of a time period, specifies downlink
5 beam energy in a second transition cell a second
6 percent of the time period, and specifies a power
7 gated downlink transition beam a remaining percent of
8 the time period.

24. The apparatus of claim 17, wherein at least one of the first cells, second cells, and transition cells are adjacent.

1 25. The apparatus of claim 17, wherein at least
2 one of the first cells, second cells, and transition
3 cells are non-adjacent.

Ad A